

Notice of Allowability

Application No.

10/086,182

Examiner

John Pezzlo

Applicant(s)

UNRUH, LINCOLN J.

Art Unit

2662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 26 February 2002.
2. ☒ The allowed claim(s) is/are 1-76.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ ~~CORRECTED~~ ^{FORMAL} DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☐ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other _____


JOHN PEZZLO
PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

Claims 1-76 are allowable over the prior art of record.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Applicant has claimed uniquely distinct features in the instant invention, which are not found in the prior art, either singularly or in combination. Each independent claim identifies the following uniquely distinct features;

1. Regarding claim 1 - A transceiver comprising: (a) a medium access controller, (b) a first set of control logic in the medium access controller for configuring the transceiver for communicating over two or more wireless carriers with a network routing center, (c) a second control logic in the medium access controller for monitoring each of the two or more wireless carriers for a service characteristic, and (d) a third control logic in the medium access controller further for selecting, based on the monitored service characteristic, one of the two or more wireless carriers that the first control logic configures the transceiver to use to communicate with the network routing center.
2. Regarding claim 24 - A network routing center comprising: (a) a registration matrix for storing one or more carrier indicators for indicating the current wireless carrier, each carrier indicator corresponding to one of one or more mobile

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communicators, (b) two or more wireless carrier gateways for communicating with the one or more mobile communicators, each wireless carrier gateway using a different wireless carrier, and (c) a processor for updating each of the one or more carrier indicators to reflect the wireless carrier for the wireless carrier gateway that receives a message from the respective mobile communicator.

3. Regarding claim 35 - A network routing center comprising: (a) a registration matrix for storing one or more carrier indicators for indicating the current wireless carrier, each carrier indicator corresponding to one of one or more mobile communicators, (b) two or more wireless carrier gateways for communicating with the one or more mobile communicators, each wireless carrier gateway using a different wireless carrier, (c) a message for transmitting to one of said mobile communicators, and (d) a processor for selecting one of the one or more wireless carrier gateways for transmitting the message according to the respective indicator for the one mobile communicator.

4. Regarding claim 37 - A network routing center comprising: (a) a registration matrix for storing a plurality of carrier indicators, each carrier indicator for indicating the current wireless carrier for one of a plurality of mobile communicators, (b) two or more wireless carrier gateways for communicating with the plurality of mobile communicators, each wireless carrier gateway using a different wireless carrier, and (c) a processor for updating each carrier indicator to reflect the wireless carrier for the wireless carrier gateway that receives a message from the respective mobile communicator.

5. Regarding claim 48 - In a mobile communicator, a method for communicating with a network routing center, comprising: (a) monitoring each of the two or more

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wireless carriers for a service characteristic, (b) selecting, based on the monitored service characteristic, one of the two or more wireless carriers, and (c) communicating with the network routing center using the selected wireless carrier.

6. Regarding claim 64 – In a network routing center, a method for communicating, comprising: (a) storing one or more carrier indicators, each carrier indicator indicating a current wireless carrier for one of one or more mobile communicators, (b) communicating with the one or more mobile communicators using two or more wireless carrier gateways, each wireless carrier gateway using a different wireless carrier, and (c) upon receiving a message from one of the one or more mobile communicators, updating the respective one or more carrier indicators to reflect the wireless carrier for the wireless carrier gateway that receives the message.

7. Regarding claim 74 – In a network routing center, a method for communicating, comprising: (a) communicating with one or more mobile communicators using two or more transceivers, each transceiver using a different wireless carrier, and (a) storing one or more carrier indicators, each carrier indicator indicating a current one of the different wireless carriers being used by one said mobile communicators, (d) selecting one of the two or more transceivers for transmitting a message to one of said mobile communicators, the step of selecting performed based on the respective indicator for the one mobile communicator.

8. Regarding claim 76 - A transceiver, comprising: (a) a means for configuring the transceiver for communicating over two or more wireless carriers with a network routing center, (b) a means for monitoring each of the two or more wireless carriers for a service characteristic, (c) a means for selecting, based on the monitored service characteristic,

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one of the two or more wireless carriers, and (d) a means for configuring the transceiver for communicating with the network routing center using the selected wireless carrier.

The closest prior art, either singularly or in combination, fail to anticipate or render the above limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 1-76 being allowable, **Prosecution On The Merits Is Closed** in this application.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Rabenko et al. (US 6,765,931 B1) discloses a gateway with voice.
2. Stine (US 2003/0033394 A1) discloses an access and routing protocol for AD HOC network using synchronous collision resolution and none state dissemination.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Pezzlo whose telephone number is (571) 272-3090. The examiner can normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(571) 273-8300

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:

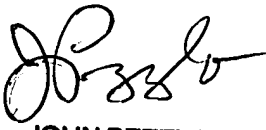
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John Pezzlo

22 January 2006


JOHN PEZZLO
PRIMARY EXAMINER